

NOVEL SUPERCONDUCTING PHASES OF Tl-BASED COMPOUNDS

I.Z. Kostadinov, M.D. Mateev, M. Michov, V. Skumriev, E. Tsakin

Department of Physics

University of Sofia

1126 Sofia, Bulgaria

E. Dinolova, O. Petrov, L. Konstantinov

Institute of Applied Mineralogy

Bulgarian Academy of Sciences

Sofia, Bulgaria

ABSTRACT

Several new superconducting phases of the Tl-based compounds were prepared. Structural studies revealed cell lengths of 31.9 Å and longer. Properties of Ce-containing compounds are also discussed.